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File 349:PCT FULLTEXT 1979-2006/UB=20061207UT=20061130  
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(c)2006 Japan Science and Tech Corp(JST)  
File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Nov  
(c) 2006 The HW Wilson Co.  
File 144:Pascal 1973-2006/Nov W2  
(c) 2006 INIST/CNRS  
File 202:Inspec 1898-1968  
(c) 2005 Institution of Electrical Engineers  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 2006 The Thomson Corp  
File 553:Wilson Bus. Abs. 1982-2006/Dec  
(c) 2006 The HW Wilson Co  
File 9:Business & Industry(R) Jul/1994-2006/Dec 07  
(c) 2006 The Gale Group  
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(c) 2006 The Gale Group  
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(c) 2006 The Gale Group  
File 56:Computer and Information Systems Abstracts 1966-2006/Nov  
(c) 2006 CSA.  
File 75:TGG Management Contents(R) 86-2006/Nov W3  
(c) 2006 The Gale Group  
File 95:TEME-Technology & Management 1989-2006/Dec W1  
(c) 2006 FIZ TECHNIK  
File 98:General Sci Abs 1984-2006/Nov  
(c) 2006 The HW Wilson Co.  
File 148:Gale Group Trade & Industry DB 1976-2006/Dec 06  
(c)2006 The Gale Group

*Inventor  
Search*

File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 275:Gale Group Computer DB(TM) 1983-2006/Dec 07  
(c) 2006 The Gale Group  
File 369:New Scientist 1994-2006/Sep W3  
(c) 2006 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
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(c) 2006 ProQuest  
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(c) 2006 Business Wire.  
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(c) 2006 The Gale Group  
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(c) 2006 McGraw-Hill Co. Inc  
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File 635:Business Dateline(R) 1985-2006/Dec 02  
(c) 2006 ProQuest Info&Learning  
File 636:Gale Group Newsletter DB(TM) 1987-2006/Dec 07  
(c) 2006 The Gale Group  
File 647:CMP Computer Fulltext 1988-2006/Jan W4  
(c) 2006 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2006/Sep W1  
(c) 2006 IDG Communications  
File 696:DIALOG Telecom. Newsletters 1995-2006/Dec 07  
(c) 2006 Dialog  
File 810:Business Wire 1986-1999/Feb 28  
(c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	7	AU='CRESCENTI J':AU='CRESCENTI J R'
S2	13	AU='CRESCENTI JOHN'
S3	1	AU='CRESCENTI, J.'
S4	5	AU='CRESCENTI, JOHN'
S5	1	IV='CRESCENTI J'
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S7	5	IV='CRESCENTI, JOHN'
S8	41	AU='KAVURI S':AU='KAVURI SRINIVAS'
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S18	77	AU='PRAHLAD A':AU='PRAHLAD ANAND'
S19	39	AU='PRAHLAD, ANAND':AU='PRAHLAD, ANAND (DENNIS FOLLY)'
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S21	27	IV='PRAHLAD, ANAND'
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AND OR OSHIN

S23	182	S1:S22
S24	90	S23 FROM 347,348,349,350,371
S25	82	IC=G06F
S26	82	S24 AND S25
S27	80	BACK???() (UP OR UPS) OR BACKUP OR BACKUPS OR STORAGE OR ARCHIV??? OR RECORDING OR PRESERV??? OR PRESERVATION OR RETENTION OR RETRIEVAL OR (DATA OR INFORMATION OR FILE OR FILES) (2N)- (RECOVERY OR RESTOR??? OR RESTORATION)
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S31	19	S28(10N)S29
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S36	1	S27 AND S35
S37	0	S29 AND S35
S38	17	S34 OR S36

38/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01371531

**SYSTEM AND METHOD FOR PERFORMING AUXILIARY STORAGE OPERATIONS**  
**SYSTEME ET PROCEDE POUR REALISER DES OPERATIONS DANS DES MEMOIRES**  
**AUXILIAIRES**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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LU Jun, 2118 Aldrin Road, Ocean, NJ 07712, US, US (Residence), CN  
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Legal Representative:

JOHANNESSEN Pristine (agent), Brown Raysman Millstein Felder & Steiner  
LLP, 900 Third Avenue, New York, NY 10022, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200653050 A2 20060518 (WO 0653050)  
Application: WO 2005US40606 20051108 (PCT/WO US2005040606)  
Priority Application: US 2004626076 20041108

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR  
KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG  
PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC  
VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7444

Fulltext Availability:

Detailed Description

Detailed Description

... is incorporated herein by reference in its entirety.

Application Serial No. 09/354,058, titled **HIERARCHICAL BACKUP AND  
RETRIEVAL** SYSTEM, filed July 15, 1999, attorney docket number 4982/5;  
U.S. Patent No. 6...

...May 5, 2004,

attorney docket number 4982/35;

Application Serial No. 10/877,831 titled **HIERARCHICAL** SYSTEM AND  
METHOD FOR PERFORMING **STORAGE** OPERATIONS IN A COMPUTER NETWOM  
filed June 25, 2004, attorney docket number 4982/39; and...

...invention are now described with reference to the drawings in the Figures. Referring to Fig. 2 , a **tiered storage** system 300 in accordance with an embodiment of the invention is shown which allows for ...

**38/3,K/2 (Item 2 from file: 349)**  
DIALOG(R)File 349:PCT FULLTEXT  
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01243222 \*\*Image available\*\*

**SYSTEMS AND METHODS FOR PERFORMING STORAGE OPERATIONS USING NETWORK ATTACHED STORAGE**

**SYSTEMES ET PROCEDES D'EXECUTION D'OPERATIONS DE STOCKAGE AU MOYEN D'UNE MEMOIRE ATTACHEE A UN RESEAU**

Patent Applicant/Assignee:

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US)

Patent Applicant/Inventor:

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SCHWARTZ Jeremy A, 30 Drummond Place, Red Bank, NH 07701, US, US  
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Legal Representative:

SHANAHAN Michael (agent), Brown Raysman Millstein Felder & Steiner LLP,  
900 Third Avenue, New York, NY 10022, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200550381 A2-A3 20050602 (WO 0550381)  
Application: WO 2004US38278 20041115 (PCT/WO US2004038278)  
Priority Application: US 2003519949 20031113

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LU MC NL PL PT  
RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 6398

Fulltext Availability:

Detailed Description

English Abstract

Systems and methods for performing **hierarchical storage** operations on electronic data in a computer network (90) are provided. In one embodiment, the...

Detailed Description

... additional storage to be quickly added by connecting to a network hub or switch.

[00071 **Hierarchical storage** management (HSM) provides for the

automatic  
3 / 24  
movement of files from hard disk to...

**38/3,K/3 (Item 3 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT  
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01168932 \*\*Image available\*\*

**REMOTE DISASTER DATA RECOVERY SYSTEM AND METHOD**

**SYSTEME ET PROCEDE DE RECUPERATION DE DONNEES A DISTANCE APRES SINISTRE**

Patent Applicant/Assignee:

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(Residence), US (Nationality)

Inventor(s):

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Legal Representative:

WOODS James J (et al) (agent), Brown Raysman Millstein Felder & Steiner  
LLP, 900 Third Avenue, New York, NY 10022, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200490676 A2-A3 20041021 (WO 0490676)  
Application: WO 2004US10668 20040405 (PCT/WO US04010668)  
Priority Application: US 2003460226 20030403

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8193

Fulltext Availability:

Detailed Description

Detailed Description

... 2000, attorney docket number 4982/9;

Application Serial No. 09/3 54,05 8, titled **HIERARCHICAL BACKUP  
AND RETRIEVAL** SYSTEM, filed July 15, 1999, attorney docket number  
4982/5;

Application Serial No. 09/774...

**38/3,K/4 (Item 4 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT  
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01112055 \*\*Image available\*\*

**SYSTEM AND METHOD FOR MANAGING STORED DATA  
SYSTEME ET PROCEDE DE GESTION DE DONNEES STOCKEES**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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NGO David, 152 Dorchester Way, Shrewsbury, NJ 07702, US, US (Residence),  
US (Nationality), (Designated only for: US)  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200434197 A2-A3 20040422 (WO 0434197)  
Application: WO 2003US31641 20031007 (PCT/WO US03031641)  
Priority Application: US 2002416717 20021007; US 2002416699 20021007

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD  
SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
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SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12096

Fulltext Availability:

Detailed Description

Detailed Description

... August 5, 2000, attorney docket number 044463-0023;

Application Serial No. 09/354,058, titled **HIERARCHICAL STORAGE AND  
RETRIEVAL** SYSTEM, filed July 15, 1999, attorney docket number 044463  
0014;

Application Serial No. 09/774...

**38/3,K/8 (Item 8 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00998809

**SYSTEM AND METHOD FOR ARCHIVING OBJECTS IN AN INFORMATION STORE  
SYSTEME ET PROCEDE PERMETTANT D'ARCHIVER DES OBJETS DANS UNE MEMOIRE  
D'INFORMATIONS**

Patent Applicant/Assignee:

Caryn S. Wesner-Early

EIC 3600 08-Dec-06

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Legal Representative:

OSTROW Seth H (agent), Brown Raysman Millstein Felder & Steiner LLP, 900  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200327891 A1 20030403 (WO 0327891)  
Application: WO 2002US31205 20020930 (PCT/WO US0231205)  
Priority Application: US 2001326023 20010928

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7317

Fulltext Availability:

Detailed Description

Detailed Description

... system to

archive and retrieve application specific objects according to  
embodiments of the  
invention;

Fig. 2 is high- level flow chart of a method to archive application  
specific objects according to embodiments of the present invention;  
5 Fig. 3 is a...107 component can function independently or together with  
other similar client computer 107 components.

Fig. 2 presents high- level flow chart of a method to archive  
application  
specific objects in accordance with embodiments of the present invention.  
An archive job automatically...

38/3,K/10 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00772868 \*\*Image available\*\*

**MODULAR BACKUP AND RETRIEVAL SYSTEM**

**SYSTEME MODULAIRE DE RECHERCHE ET DE SECOURS**

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Inventor(s):



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OSHINSKY David A, 22 Francis Road, East Brunswick, NJ 08816, US  
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Legal Representative:

BENNETT James D, Akin, Gump, Strauss, Hauer & Feld, LLP, Suite 1900, 816  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200106368 A1 20010125 (WO 0106368)  
Application: WO 2000US19329 20000717 (PCT/WO US0019329)  
Priority Application: US 99354063 19990715  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 8837

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

... where the second software agent is communicatively coupled to at least one library media. The **second software agent** controls and manages the physical **backup** of data onto the library media.

Another embodiment of the backup and retrieval system uses...

...and may reside in any combination on a single computing device. Exemplary embodiments of the **backup** system may take the form where first **software agent** and the **second software agent** operate on the same computing device, where the first and third software agents operate on...

...the course of creating an archive on the library media. Thus, the location of the **archived** data is **preserved**,  
3  
and the **second software agent** communicates at least part of the indexed information to the first software agent. Also, the...

Claim

... unit, the second software agent communicatively coupled to the first software agent; at least one **storage** device communicatively coupled to the second **software agent**, the **second software agent** controlling physical **backup** of data onto the at least one storage device; and the first software agent controlling the **second software agent**.

2 The **backup** and **retrieval** system of claim 1 further comprising a third software agent that controls backups of a...

38/3,K/11 (Item 11 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Thomson. All rts. reserv.

00772867 \*\*Image available\*\*

HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM  
SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE  
Patent Applicant/Assignee:

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Inventor(s):

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200106367 A1 20010125 (WO 0106367)  
Application: WO 2000US19324 20000717 (PCT/WO US0019324)  
Priority Application: US 99354058 19990715  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 6616

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

Fulltext Availability:

Detailed Description

English Abstract

The invention is a **hierarchical backup** system. The interconnected network computing devices are put into groups of backup cells. A backup ...

...in communication. Thus, the first software agent can direct or alter the parameters of the **second software agent** to define a new **backup** regimen for the **backup** cell controlled by the **second software agent**. Or, if the second software agent fails or cannot function properly, the first software agent can direct the **backup** of the **second** cell. The **software agents** need not operate on separate computing devices. Additionally, a backup hierarchy may be achieved using...

Detailed Description

TITLE: **HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**  
SPECIFICATION

CROSS-REFERENCE To RELATED APPLICATIONS

The present application claims priority to U.S. Patent Application Serial No.

09/354,058, entitled "**Hierarchical Backup and Retrieval System**,"  
(Attorney Docket No.

044463.0014), filed July 15, 1999.

BACKGROUND OF THE INVENTION

I...

...is directed to storage and retrieval systems. In particular, the invention is directed towards a **hierarchical storage and retrieval** system for a computer or a series of interconnected computers.

2. Related Art

Conventional backup...

...first software agent makes archival requests directed to the backup device or devices to initiate **archival** requests, including **backups** and restores.

A **second software agent**, operating on the second network device, supervises the operation of the first **software agent**. The **second software agent** is able to initiate **archival** function requests to the **backup** device or devices independent from the first **software agent**.

Additionally, the **second software agent** may make an **archival** request directly to the first software agent, which then initiates the actual request directed to...

...device. The backup system of claim 1 wherein the first software agent is responsive to **archival** function requests from the second **software agent**. Or, the **second software agent** may change the operational parameters of the first software agent, thus allowing the **second software agent** to set administrative control of the **backup** of the network computing devices.

The first software agent communicates information on the status...

...also communicates the status of the network computing devices that it is responsible for the **backup** of to the **second software agent**. This allows the second software agent to stand in for the first software agent when the first software agent is unable to perform at its full functionality. The **second software agent** is able to manage the **backup** of the network

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computing devices that the first software agent is responsible for when ...

...is able to initiate a change in the operational parameters as described by the manager **software component**. Thus, the **second software component** may administer the characteristics of the **backup** policy of the manager software component.

In one embodiment, the second software component executes on...

...of a second group of network devices.

Or, the manager software component can operate the **backup** activities of a **backup** cell. Additionally, the **second software component** can operate the **backup** activities of a second backup cell, as well as manage or supervise the manager software component operating the first cell. Thus, a **hierarchical** structure in a **backup** system can be defined.

In another embodiment, the network computer system has a first group... agent. The second software agent receives information on the first domain, and as such, the **second software agent** may operate the **back up** activities of the first domain.

The **second software agent** can manage a second group of network devices in the second domain in a similar...

...follow.

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#### BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a block diagram of a **hierarchical** network **backup** system according to the invention.

Fig. 2 is functional block diagram of an embodiment of the **hierarchical**

**backup** system of Fig. I embodying data transfer between the components comprising the individual backup cell...  
...network system depicted in Fig. 3.

Fig. 5 is a block diagram of an exemplary **hierarchical backup** network according to the  
0  
invention.

7

#### DETAILED DESCRIPTION OF THE INVENTION

Fig. I is a block diagram of a **hierarchical network backup** system according to the invention. A backup cell I 00 comprises a plurality of network...detailed in this application.

Fig. 2 is functional block diagram of an embodiment of the **hierarchical backup** system of Fig. I embodying data transfer between the components comprising the individual backup cell...and physical backup cells by name.

Fig. 5 is a block diagram of an exemplary **hierarchical backup** network according to the invention. Each bubble represents a physical backup cell, as described previously...  
...514, and vice versa. In any case, this is possible and can be implemented.

The **backup** cell 520 contains several **hierarchical** portions. First, the domain "Company.niktg" is contained in the backup cell 520. The manager...

**38/3,K/12 (Item 12 from file: 349)**  
DIALOG(R)File 349:PCT FULLTEXT  
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00771260 \*\*Image available\*\*

#### **MODULAR BACKUP AND RETRIEVAL SYSTEM USED IN CONJUNCTION WITH A STORAGE AREA NETWORK**

#### **SYSTEME MODULAIRE DE SAUVEGARDE ET DE RECUPERATION UTILISE CONJOINTEMENT AVEC UN RESEAU A ZONE DE MEMOIRE**

Patent Applicant/Assignee:

COMMVAULT SYSTEMS INC, 2 Crescent Place, Oceanport, NJ 07757-0900, US, US  
(Residence), US (Nationality)

Inventor(s):

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KAVURI Srinivas, 40 Maple Court, Highland Park, NJ 08904, US  
OSHINSKY David A, 22 Francis Road, East Brunswick, NJ 08816, US  
PRAHLAD Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, US

Legal Representative:

BENNETT James D, Akin, Gump, Strauss, Hauer & Feld, L.L.P., Suite 1900,  
816 Congress Avenue, Austin, TX 78701, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200104756 A1 20010118 (WO 0104756)  
Application: WO 2000US19364 20000714 (PCT/WO US0019364)  
Priority Application: US 99143743 19990714; US 99143744 19990714; US  
2000610738 20000706

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 5676

Fulltext Availability:  
Detailed Description

Detailed Description

... computer networks. In particular, the present invention is directed towards the implementation of a distributed, **hierarchical backup** system with a **storage** area network (SAN) system.

. Related Art.

Conventional backup devices commonly employ a monolithic backup and...

**38/3,K/13 (Item 1 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corporation. All rts. reserv.

0015473364 - Drawing available

WPI ACC NO: 2005-811201/200582

XRPX Acc No: N2005-672585

**Hierarchical system for performing storage operations in computer network, has storage manager component programmed to instruct another component, regarding performance of storage operations in storage operation cell**

Patent Assignee: BUNTE A G (BUNT-I); COMMVAULT SYSTEMS INC (COMM-N); KAVURI S (KAVU-I); LUNDE N R (LUND-I); MADEIRA A D (MADE-I); MAY A (MAYA-I); PRAHLAD A (PRAH-I); SCHWARTZ J (SCHW-I)

Inventor: BUNTE A G; KAVURI S; LUNDE N R; MADEIRA A D; MAY A; PRAHLAD A; SCHWARTZ J; SCHWARTZ J A

**Patent Family** (5 patents, 108 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2005109212	A2	20051117	WO 2005US15202	A	20050502	200582 B
US 20060053261	A1	20060309	US 2004567178	P	20040430	200618 E
			US 2005120619	A	20050502	
US 20060053262	A1	20060309	US 2004567178	P	20040430	200618 E
			US 2005120661	A	20050502	
US 20060053263	A1	20060309	US 2004567178	P	20040430	200618 E
			US 2005120662	A	20050502	
US 20060064555	A1	20060323	US 2004567178	P	20040430	200622 E
			US 2005120634	A	20050502	

Priority Applications (no., kind, date): US 2005120662 A 20050502; US 2005120661 A 20050502; US 2005120634 A 20050502; US 2005120619 A 20050502; US 2004567178 P 20040430

**Patent Details**

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2005109212	A2	EN	84	10	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

US 20060053261	A1	EN		Related to Provisional	US 2004567178
US 20060053262	A1	EN		Related to Provisional	US 2004567178

US 20060053263 A1 EN Related to Provisional US 2004567178  
US 20060064555 A1 EN Related to Provisional US 2004567178

**Hierarchical system for performing storage operations in computer network, has storage manager component programmed to instruct another component, regarding performance...**

**Alerting Abstract USE** - For performing **storage** operations including snapshot copies, **archive** copies, **hierarchical storage** management (HSM) copies, **backup** copies and other copies of electronic data in computer network including server, workstation, personal computer...

#### **Original Publication Data by Authority**

#### **Original Abstracts:**

The present invention provides systems and methods for data **storage** . A **hierarchical storage** management architecture is presented to facilitate data management. The disclosed system provides methods for evaluating...

...The present invention provides systems and methods for data **storage** . A **hierarchical storage** management architecture is presented to facilitate data management. The disclosed system provides methods for evaluating...

...The present invention provides systems and methods for data **storage** . A **hierarchical storage** management architecture is presented to facilitate data management. The disclosed system provides methods for evaluating...

...The present invention provides systems and methods for data **storage** . A **hierarchical storage** management architecture is presented to facilitate data management. The disclosed system provides methods for evaluating...

...The present invention provides systems and methods for data **storage** . A **hierarchical storage** management architecture is presented to facilitate data management. The disclosed system provides methods for evaluating...

**38/3,K/14 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2006 The Thomson Corporation. All rts. reserv.

0015095192 - Drawing available

WPI ACC NO: 2005-444660/200545

XRPX Acc No: N2005-361402

**Data accessing method in network attached storage device, involves providing stub at initial location of data in primary storage for redirecting network device to secondary storage having data copied from primary storage**

Patent Assignee: COMVAULT SYSTEMS INC (COMM-N); PRAHLAD A (PRAH-I); SCHWARTZ J (SCHW-I)

Inventor: PRAHLAD A; SCHWARTZ J; SCHWARTZ J A

**Patent Family** (2 patents, 106 countries)

Patent			Application			Update
Number	Kind	Date	Number	Kind	Date	
WO 2005050381	A2	20050602	WO 2004US38278	A	20041115	B
US 20060010154	A1	20060112	US 2003519949	P	20031113	E
			US 2004990360	A	20041115	

Priority Applications (no., kind, date): US 2004990360 A 20041115; US 2003519949 P 20031113

**Patent Details**

Number Kind Lan Pg Dwg Filing Notes  
 WO 2005050381 A2 EN 32 6  
 National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW  
 BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR  
 HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW  
 MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR  
 TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
 Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES  
 FI FR GB GH GM GR HU IE IS IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE  
 SI SK SL SZ TR TZ UG ZM ZW  
 US 20060010154 A1 EN Related to Provisional US 2003519949

**Original Publication Data by Authority****Original Abstracts:**

Systems and methods for performing **hierarchical storage** operations on electronic data in a computer network are provided. In one embodiment, the present...

...Systems and methods for performing **hierarchical storage** operations on electronic data in a computer network are provided. In one embodiment, the present...

**38/3,K/16 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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0010760500 - Drawing available

WPI ACC NO: 2001-374125/200139

XRPX Acc No: N2001-273747

**Hierarchical network backup system for interconnected computer, has backup managers in backup cells, for controlling backup of data in backup devices of same and other backup cells**

Patent Assignee: COMMVAULT SYSTEMS INC (COMM-N)

Inventor: CRESCENTI J; KAVURI S; OSHINSKY D A; PRAHLAD A; OSHINSKY A

**Patent Family** (6 patents, 25 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2001006367	A1	20010125	WO 2000US19324	A	20000717	200139 B
EP 1204922	A1	20020515	EP 2000947402	A	20000717	200239 E
			WO 2000US19324	A	20000717	
EP 1204922	B1	20050622	EP 2000947402	A	20000717	200541 E
			WO 2000US19324	A	20000717	
DE 60020978	E	20050728	DE 60020978	A	20000717	200551 E
			EP 2000947402	A	20000717	
			WO 2000US19324	A	20000717	
ES 2243283	T3	20051201	EP 2000947402	A	20000717	200625 E
DE 60020978	T2	20060427	DE 60020978	A	20000717	200629 E
			EP 2000947402	A	20000717	
			WO 2000US19324	A	20000717	

Priority Applications (no., kind, date): US 1999354058 A 19990715

**Patent Details**

Number Kind Lan Pg Dwg Filing Notes  
 WO 2001006367 A1 EN 34 5

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE  
 IT LU MC NL PT SE  
 EP 1204922 A1 EN PCT Application WO 2000US19324  
 Based on OPI patent WO 2001006367  
 Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR  
 IE IT LI LT LU LV MC MK NL PT RO SE SI  
 EP 1204922 B1 EN PCT Application WO 2000US19324  
 Based on OPI patent WO 2001006367  
 Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE  
 IT LI LU MC NL PT SE  
 DE 60020978 E DE Application EP 2000947402  
 PCT Application WO 2000US19324  
 Based on OPI patent EP 1204922  
 Based on OPI patent WO 2001006367  
 ES 2243283 T3 ES Application EP 2000947402  
 Based on OPI patent EP 1204922  
 DE 60020978 T2 DE Application EP 2000947402  
 PCT Application WO 2000US19324  
 Based on OPI patent EP 1204922  
 Based on OPI patent WO 2001006367

Hierarchical network backup system for interconnected computer, has backup managers in backup cells, for controlling backup of data in backup devices of same and...

#### Original Titles:

... HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM...

... HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM...

... HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM

**Alerting Abstract** ...manager operates the backup activities of back up cell and manages the operation of other backup cells to define a hierarchical structure so that alternative control of another backup cell is used when the backup manager of another backup cell has failed. Hence system...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram hierarchical network backup system...

#### Original Publication Data by Authority

#### Original Abstracts:

The invention is a hierarchical backup system. The interconnected network computing devices are put into groups of backup cells. A backup...

...in communication. Thus, the first software agent can direct or alter the parameters of the second software agent to define a new backup regimen for the backup cell controlled by the second software agent. Or, if the second software agent fails or cannot function properly, the first software agent can direct the backup of the second cell. The software agents need not operate on separate computing devices. Additionally, a backup hierarchy may be achieved using...

...The invention is a hierarchical backup system. The interconnected network computing devices are put into groups of backup cells. A backup...

...in communication. Thus, the first software agent can direct or alter the



**38/AA,AN,AZ,TI/1 (Item 1 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01371531

**SYSTEM AND METHOD FOR PERFORMING AUXILIARY STORAGE OPERATIONS**  
**SYSTEME ET PROCEDE POUR REALISER DES OPERATIONS DANS DES MEMOIRES**  
**AUXILIAIRES**

Application: WO 2005US40606 20051108 (PCT/WO US2005040606)

**38/AA,AN,AZ,TI/2 (Item 2 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01243222

**SYSTEMS AND METHODS FOR PERFORMING STORAGE OPERATIONS USING NETWORK**  
**ATTACHED STORAGE**  
**SYSTEMES ET PROCEDES D'EXECUTION D'OPERATIONS DE STOCKAGE AU MOYEN D'UNE**  
**MEMOIRE ATTACHEE A UN RESEAU**

Application: WO 2004US38278 20041115 (PCT/WO US2004038278)

**38/AA,AN,AZ,TI/3 (Item 3 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01168932

**REMOTE DISASTER DATA RECOVERY SYSTEM AND METHOD**  
**SYSTEME ET PROCEDE DE RECUPERATION DE DONNEES A DISTANCE APRES SINISTRE**

Application: WO 2004US10668 20040405 (PCT/WO US04010668)

**38/AA,AN,AZ,TI/4 (Item 4 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01112055

**SYSTEM AND METHOD FOR MANAGING STORED DATA**  
**SYSTEME ET PROCEDE DE GESTION DE DONNEES STOCKEES**

Application: WO 2003US31641 20031007 (PCT/WO US03031641)

**38/AA,AN,AZ,TI/5 (Item 5 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01101484

**DYNAMIC STORAGE DEVICE POOLING IN A COMPUTER SYSTEM**  
**MISE EN COMMUN D'UNE MEMOIRE DYNAMIQUE DANS UN SYSTEME INFORMATIQUE**

Application: WO 2003US28319 20030909 (PCT/WO US03028319)

**38/AA,AN,AZ,TI/6 (Item 6 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01017719

**METHOD AND SYSTEM FOR SCHEDULING MEDIA EXPORTS**  
**PROCEDE ET SYSTEME PERMETTANT DE PROGRAMMER DES EXPORTATIONS DE SUPPORTS**

Application: WO 2002US37693 20021122 (PCT/WO US0237693)

**38/AA,AN,AZ,TI/7 (Item 7 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01016707

**SELECTIVE DATA REPLICATION SYSTEM AND METHOD**

**SYSTEME ET PROCEDE DE DUPLICATION SELECTIVE DE DONNEES**

Application: WO 2002US37838 20021125 (PCT/WO US0237838)

**38/AA,AN,AZ,TI/8 (Item 8 from file: 349)**

DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00998809

**SYSTEM AND METHOD FOR ARCHIVING OBJECTS IN AN INFORMATION STORE**

**SYSTEME ET PROCEDE PERMETTANT D'ARCHIVER DES OBJETS DANS UNE MEMOIRE D'INFORMATIONS**

Application: WO 2002US31205 20020930 (PCT/WO US0231205)

**38/AA,AN,AZ,TI/9 (Item 9 from file: 349)**

DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00998151

**SYSTEM AND METHOD FOR GENERATING AND MANAGING QUICK RECOVERY VOLUMES**

**SYSTEME ET PROCEDE DE GENERATION ET DE GESTION DE VOLUMES DE RAPIDE RECUPERATION**

Application: WO 2002US31206 20020930 (PCT/WO US0231206)

**38/AA,AN,AZ,TI/10 (Item 10 from file: 349)**

DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00772868

**MODULAR BACKUP AND RETRIEVAL SYSTEM**

**SYSTEME MODULAIRE DE RECHERCHE ET DE SECOURS**

Application: WO 2000US19329 20000717 (PCT/WO US0019329)

**38/AA,AN,AZ,TI/11 (Item 11 from file: 349)**

DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00772867

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

**SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE**

Application: WO 2000US19324 20000717 (PCT/WO US0019324)

**38/AA,AN,AZ,TI/12 (Item 12 from file: 349)**

DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00771260

**MODULAR BACKUP AND RETRIEVAL SYSTEM USED IN CONJUNCTION WITH A STORAGE AREA NETWORK**

**SYSTEME MODULAIRE DE SAUVEGARDE ET DE RECUPERATION UTILISE CONJOINTEMENT AVEC UN RESEAU A ZONE DE MEMOIRE**

Application: WO 2000US19364 20000714 (PCT/WO US0019364)

**38/AA,AN,AZ,TI/13 (Item 1 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0015473364

WPI ACC NO: 2005-811201/

Hierarchical system for performing storage operations in computer network, has storage manager component programmed to instruct another component, regarding performance of storage operations in storage operation cell

**Original Titles:**

Hierarchical systems and methods for providing a unified view of storage information

Systems and methods for detecting & mitigating storage risks

Systems and methods for generating a storage-related metric

Systems and methods for storage modeling & costing

HIERARCHICAL SYSTEMS AND METHODS FOR PROVIDING A UNIFIED VIEW OF STORAGE INFORMATION

SYSTEMES ET PROCEDES HIERARCHIQUES PERMETTANT D'OBTENIR UNE VUE UNIFIEE D'INFORMATIONS DE STOCKAGE

Local Applications (No Type Date): WO 2005US15202 A 20050502; US 2004567178 P 20040430; US 2005120619 A 20050502; US 2004567178 P 20040430; US 2005120661 A 20050502; US 2004567178 P 20040430; US 2005120662 A 20050502; US 2004567178 P 20040430; US 2005120634 A 20050502

Priority Applications (no., kind, date): US 2005120662 A 20050502; US 2005120661 A 20050502; US 2005120634 A 20050502; US 2005120619 A 20050502; US 2004567178 P 20040430

**38/AA,AN,AZ,TI/14 (Item 2 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0015095192

WPI ACC NO: 2005-444660/

**Data accessing method in network attached storage device, involves providing stub at initial location of data in primary storage for redirecting network device to secondary storage having data copied from primary storage**

**Original Titles:**

Systems and methods for performing storage operations using network attached storage

SYSTEMS AND METHODS FOR PERFORMING STORAGE OPERATIONS USING NETWORK ATTACHED STORAGE

SYSTEMES ET PROCEDES D'EXECUTION D'OPERATIONS DE STOCKAGE AU MOYEN D'UNE MEMOIRE ATTACHEE A UN RESEAU

Local Applications (No Type Date): WO 2004US38278 A 20041115; US 2003519949 P 20031113; US 2004990360 A 20041115

Priority Applications (no., kind, date): US 2004990360 A 20041115; US 2003519949 P 20031113

**38/AA,AN,AZ,TI/15 (Item 3 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0014824243

WPI ACC NO: 2005-171933/

**Electronic data storage operation e.g. snapshot copy, performing method for use in computer network, has master storage manager communicating with manager agent of each storage operation cell for performing storage operations**

**Original Titles:**

**Hierarchical** system and method for performing **storage** operations in a computer network

Local Applications (No Type Date): US 2003482305 P 20030625; US 2004877831 A 20040625

Priority Applications (no., kind, date): US 2003482305 P 20030625; US 2004877831 A 20040625

**38/AA,AN,AZ,TI/16** (Item 4 from file: 350)

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0010760500

WPI ACC NO: 2001-374125/

**Hierarchical network backup system for interconnected computer, has backup managers in backup cells, for controlling backup of data in backup devices of same and other backup cells**

**Original Titles:**

HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM

HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE

HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE

Local Applications (No Type Date): WO 2000US19324 A 20000717; EP

2000947402 A 20000717; WO 2000US19324 A 20000717; EP 2000947402 A

20000717; WO 2000US19324 A 20000717; DE 60020978 A 20000717; EP

2000947402 A 20000717; WO 2000US19324 A 20000717; EP 2000947402 A

20000717; DE 60020978 A 20000717; EP 2000947402 A 20000717; WO

2000US19324 A 20000717

Priority Applications (no., kind, date): US 1999354058 A 19990715

**38/AA,AN,AZ,TI/17** (Item 1 from file: 484)

DIALOG(R)File 484:(c) 2006 ProQuest. All rts. reserv.

03097956

**Alger Hiss and the intellectuals: The meaning of an enduring controversy**

*Bibliographic  
Patent  
files*

? show files;ds  
File 347:JAPIO Dec 1976-2006/Aug(Updated 061130)  
    (c) 2006 JPO & JAPIO  
File 350:Derwent WPIX 1963-2006/UD=200678  
    (c) 2006 The Thomson Corporation  
File 371:French Patents 1961-2002/BOPI 200209  
    (c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	180261	(NETWORK?? OR INTERCONNECTED) (3N) (COMPUTER OR SYSTEM OR DISTRIBUTED) OR LAN OR WAN OR (LOCAL OR WIDE) ( ) AREA ( ) (NETWORK OR NETWORKS)
S2	97588	HIERARCHICAL OR (TWO OR 2 OR SECOND OR 2ND OR TWOFOLD OR DUAL OR PLURAL OR PLURALITY OR MULTIPLE? OR MULTI OR PAIR??) (2-N) (LEVEL OR LEVELS OR TIER?? OR SOFTWARE ( ) (AGENT OR AGENTS OR COMPONENT OR COMPONENTS))
S3	2298558	BACK??? ( ) (UP OR UPS) OR BACKUP OR BACKUPS OR STORAGE OR ARCHIV??? OR RECORDING OR PRESERV??? OR PRESERVATION OR RETENTION OR RETRIEVAL OR (DATA OR INFORMATION OR FILE OR FILES) (2N) - (RECOVERY OR RESTOR??? OR RESTORATION)
S4	3958	(MAINTAIN??? OR MAINTENANCE) (2N) (METRICS OR ALGOR?THM? ? OR FORMULA? ? OR PARAMET? OR RULE OR RULES) OR INITIAT??? (2N) (REQUEST OR REQUESTS OR ARCHIVAL OR ARCHIVING OR BACKUP OR RESTORE OR RESTORES)
S5	2638510	SUPERVISE OR SUPERVISES OR SUPERVISING OR ADMINISTER OR ADMINISTRATION OR MANAGE OR MANAGES OR MANAGING OR OPERATES OR INDEPENDENT??
S6	25	S1 (10N) ((S2 (5N) S3) OR HSM)
S7	76	S4 (10N) S5
S8	1	S6 (S) S7
S9	1	S6 AND S7
S10	90	S1 (S) ((S2 (7N) S3) OR HSM)
S11	121	S4 (20N) S5
S12	1	S10 AND S11
S13	9	S1 AND S2 AND S3 AND S4 AND S5
S14	1365956	IC=G06F
S15	8	S13 AND S14
S16	8	IDPAT (sorted in duplicate/non-duplicate order)
S17	8	IDPAT (primary/non-duplicate records only)

17/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0010760500 - Drawing available

WPI ACC NO: 2001-374125/200139

XRPX Acc No: N2001-273747

Hierarchical network backup system for interconnected computer ,  
has backup managers in backup cells, for controlling backup of data  
in backup devices of same and other backup cells

Patent Assignee: COMMVAULT SYSTEMS INC (COMM-N)

Inventor: CRESCENTI J; KAVURI S; OSHINSKY D A; PRAHLAD A; OSHINSKY A

Patent Family (6 patents, 25 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001006367	A1	20010125	WO 2000US19324	A	20000717	200139 B
EP 1204922	A1	20020515	EP 2000947402	A	20000717	200239 E
			WO 2000US19324	A	20000717	
EP 1204922	B1	20050622	EP 2000947402	A	20000717	200541 E
			WO 2000US19324	A	20000717	
DE 60020978	E	20050728	DE 60020978	A	20000717	200551 E
			EP 2000947402	A	20000717	
			WO 2000US19324	A	20000717	
ES 2243283	T3	20051201	EP 2000947402	A	20000717	200625 E
DE 60020978	T2	20060427	DE 60020978	A	20000717	200629 E
			EP 2000947402	A	20000717	
			WO 2000US19324	A	20000717	

Priority Applications (no., kind, date): US 1999354058 A 19990715

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001006367	A1	EN	34	5	
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
EP 1204922	A1	EN			PCT Application WO 2000US19324 Based on OPI patent WO 2001006367
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
EP 1204922	B1	EN			PCT Application WO 2000US19324 Based on OPI patent WO 2001006367
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
DE 60020978	E	DE			Application EP 2000947402 PCT Application WO 2000US19324 Based on OPI patent EP 1204922 Based on OPI patent WO 2001006367
ES 2243283	T3	ES			Application EP 2000947402 Based on OPI patent EP 1204922
DE 60020978	T2	DE			Application EP 2000947402 PCT Application WO 2000US19324 Based on OPI patent EP 1204922 Based on OPI patent WO 2001006367

Hierarchical network backup system for interconnected computer ,  
has backup managers in backup cells, for controlling backup of data  
in backup devices of same and other backup cells

#### Original Titles:

... HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM...

... **HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM...**

... **HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

**Alerting Abstract ...NOVELTY - Backup** cells (100,150) having **backup** devices (112,122,132,162,172,182) execute the **backup** of data in the network computing devices (110,120,130,160,170,180). Managers (114,164) coupled to **backup** devices (112,162) control the **backup** of data in relative **backup** devices. **Backup** cells are coupled mutually and the managers of one **backup** cell controls the **backup** devices of other **backup** cells. USE - In **interconnected computer** systems...

...ADVANTAGE - Manager is responsible for **managing** parameters of **archival** characteristics of network devices to **initiate archival request** for those network computing devices. The manager **operates** the **backup** activities of **back up** cell and **manages** the operation of other **backup** cells to define a **hierarchical** structure so that alternative control of another **backup** cell is used when the **backup** manager of another **backup** cell has failed. Hence system wide change to **backup** cell parameters is initiated through a single manager and propagated to other **backup** cells...

...DESCRIPTION OF DRAWINGS - The figure shows the block diagram **hierarchical network backup system** .

...

...100,150 **Backup** cells...

...114,164 **Backup** manager components...

...112,122,132,162,172,182 **Backup** devices

#### **Class Codes**

International Classification (Main): **G06F-011/14**

International Classification (+ Attributes)

IPC + Level Value Position Status Version

**G06F-0011/00 ...**

... **G06F-0011/14 ...**

... **G06F-0011/20 ...**

... **G06F-0011/14**  
**G06F-0011/00 ...**

... **G06F-0011/14 ...**

... **G06F-0011/20**

#### **Original Publication Data by Authority**

#### **Original Abstracts:**

The invention is a **hierarchical backup system** . The **interconnected network** computing devices are put into groups of **backup** cells. A **backup** cell has a manager software agent responsible for maintaining and **initiating** a **backup** regime for the network computing devices in the **backup** cell. The **backups** are directed to **backup** devices within the **backup** cell. Several **backup** cells can be defined. A manager software agent for a particular cell may be placed...

...in communication. Thus, the first software agent can direct or alter the parameters of the **second software agent** to define a new **backup** regimen for the **backup** cell controlled by the **second software agent**. Or, if the **second software agent** fails or cannot function properly, the first software agent can direct the **backup** of the **second** cell. The **software agents** need not operate on separate computing devices. Additionally, a **backup** hierarchy may be achieved using the communication and control techniques of the software agents...

...The invention is a **hierarchical backup system**. The **interconnected network** computing devices are put into groups of **backup** cells. A **backup** cell has a manager software agent responsible for maintaining and **initiating** a **backup** regime for the network computing devices in the **backup** cell. The **backups** are directed to **backup** devices within the **backup** cell. Several **backup** cells can be defined. A manager software agent for a particular cell may be placed...

...in communication. Thus, the first software agent can direct or alter the parameters of the **second software agent** to define a new **backup** regimen for the **backup** cell controlled by the **second software agent**. Or, if the **second software agent** fails or cannot function properly, the first software agent can direct the **backup** of the **second** cell. The **software agents** need not operate on separate computing devices. Additionally, a **backup** hierarchy may be achieved using the communication and control techniques of the software agents...

**Claims:**

...A **backup and retrieval system** for a **network** computing **system**, the **network** computing **system** comprising a plurality of network devices (110, 120, 130, 160, 170, 180) storing data to be **backed up**, said **backup and retrieval** system comprising: a plurality of **backup** cells (100, 150), each cell comprising: at least one of said plurality of network devices (110, 120, 130); a first **backup** device (112, 162) for executing a **backup** of the data stored on said at least one of said plurality of network devices (110, 120, 130); and a management component (114, 164) communicatively coupled to the **backup** device (112, 162) for controlling the **backup** of the data to the **backup** device (112, 162); wherein a first **backup** cell (100) having a first management component (114) for controlling the **backup** of data is communicatively coupled to at least a second of the plurality of **backup** cells (150) via said **network** said **system** being <b>characterised in that</b> a second management component (164) in the second **backup** cell (150) is configured to be able to control at least in part the **backup** of data in said first **backup** cell (100) instead of the first management component (114)...

17/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0010724540 - Drawing available

WPI ACC NO: 2001-336067/200136

XRPX Acc No: N2001-242587

**Vault controller for secure multiple browser session in e-commerce uses context manager to activate keys for transferring data in storage levels and initiate application interface within domain/function as defined by URL**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: CARROLL R; CARROLL R B; FISK M; FISK M D; GHAFIR H; MARUYAMA H

**Patent Family** (3 patents, 2 countries)



Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
CA 2310535	A1	20001230	CA 2310535	A	20000602	200136 B
US 20040193885	A1	20040930	US 1999343231	A	19990630	200465 E
			US 2004771107	A	20040203	
US 7013388	B2	20060314	US 1999343231	A	19990630	200620 E
			US 2004771107	A	20040203	

Priority Applications (no., kind, date): US 2004771107 A 20040203; US 1999343231 A 19990630

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
CA 2310535	A1	EN	24	4	
US 20040193885	A1	EN			Continuation of application US 1999343231
US 7013388	B2	EN			Continuation of application US 1999343231

**...browser session in e-commerce uses context manager to activate keys for transferring data in storage levels and initiate application interface within domain/function as defined by URL**

**Alerting Abstract** ...in memory as well as mechanism for importing and exporting global context to external encrypted **storage** . An external vault agent (28) running remotely incorporates a subset of vault process functionality, enabling...

...the vault controller. The vault process is multithreaded with each thread with its own local **storage** area allowing it to maintain 'state' across multiple browser-server interactions. An **INDEPENDENT** CLAIM is also included for a context manager within a vault process for maintaining state ...

...ADVANTAGE - It supports the creation, **storage** and **retrieval** of data for state maintenance of vault processes in successive browser connection as well as...

**Title Terms**.../Index Terms/Additional Words: **MANAGE** ; ...

... **STORAGE** ;

#### Class Codes

International Classification (Main): **G06F-017/30** ...  
(Additional/Secondary): **G06F-017/60** ...

#### Original Publication Data by Authority

#### Original Abstracts:

A context manager supports creation, **storage** and **retrieval** of data to implement state maintenance in a vault process using "scoping" of **multiple levels** of **storage** . A user **request** is **initiated** by invoking an URL with embedded Application Domain and Instance Context. The URL request is ...

...establishing a secure exchange of information between an end user and a server in a **distributed network** environment are provided in accordance with a context manager. The context manager is manageable within...

...data for non-null values where a scoping level is not identified when

performing a **retrieval** operation.

**Claims:**

...with multiple application domains containing various applications functions, comprising; a first or global level of **storage** of variables spanning applications and available to multiple vault applications in different domains; a **second** or application **level** of **storage** defining variables common to a given application domain for a given sequence of operations within the application; a third or instance level of **storage** for the given sequence of operation within a given application domain; means for initiating the...

...a valid user request; means responsive to the vault process start-up and the user **request** to **initiate** application program interfaces applicable to context instances within an application domain and function; and means...

...global context for non-null values where a scoping level is not identified when performing a **retrieval** operation...

...in establishing a secure exchange of information between an end user and a server in a **distributed** network environment, the method comprising the steps of: in accordance with a context manager, manageable...

...instance level data for non-null values where a scoping level is not identified when **performing** a **retrieval** operation.

**17/AN,AZ,TI/1 (Item 1 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0013754629

**Serial interrupt request generation method for computer system, involves generating low to high transition in signal line for preset duration, when interrupt request is initiated by input/output devices.**

**Original Titles:**

Method, apparatus, and system for generating serial interrupt requests (IRQ) with power savings

Method, apparatus, and system for generating serial interrupt requests (IRQ) with power savings

Local Applications (No Type Date): US 2002143165 A 20020510; US 2002143165 A 20020510

Priority Applications (no., kind, date): US 2002143165 A 20020510

**17/AN,AZ,TI/2 (Item 2 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0012427310

**Method of responding to a request for services/information for use in computer networks such as the Internet, includes a unique identifier in the request to identify domain names that may not be registered as part of Domain Name system**

**Original Titles:**

Providing services and information based on a request that includes a unique identifier

Providing services and information based on a request that includes a unique identifier

PROVIDING SERVICES AND INFORMATION BASED ON A REQUEST THAT INCLUDES A UNIQUE IDENTIFIER

FOURNITURE DE SERVICES ET D'INFORMATIONS FONDEE SUR UNE REQUETE INCLUANT UN IDENTIFICATEUR SPECIFIQUE

Local Applications (No Type Date): WO 2001US31309 A 20011004; AU 200211482 A 20011004; US 2000237849 P 20001004; US 2001971018 A 20011004; AU 2002211482 A 20011004

Priority Applications (no., kind, date): US 2001971018 A 20011004; US 2000237849 P 20001004

**17/AN,AZ,TI/3 (Item 3 from file: 350)**

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0010832320

**Server access request validation method in Internet, involves initiating query with key to identified contact in response to server access request to check authenticity of scan request**

**Original Titles:**

Lightweight authentication system and method for validating a server access request.

Local Applications (No Type Date): US 1998102422 A 19980622

Priority Applications (no., kind, date): US 1998102422 A 19980622

**17/AN,AZ,TI/4 (Item 4 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0010760500

**Hierarchical network backup system for interconnected computer ,  
has backup managers in backup cells, for controlling backup of data  
in backup devices of same and other backup cells**

**Original Titles:**

HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM

HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE

HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE

Local Applications (No Type Date): WO 2000US19324 A 20000717; EP

2000947402 A 20000717; WO 2000US19324 A 20000717; EP 2000947402 A

20000717; WO 2000US19324 A 20000717; DE 60020978 A 20000717; EP

2000947402 A 20000717; WO 2000US19324 A 20000717; EP 2000947402 A

20000717; DE 60020978 A 20000717; EP 2000947402 A 20000717; WO

2000US19324 A 20000717

Priority Applications (no., kind, date): US 1999354058 A 19990715

**17/AN,AZ,TI/5 (Item 5 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0010724540

**Vault controller for secure multiple browser session in e-commerce uses  
context manager to activate keys for transferring data in storage levels  
and initiate application interface within domain/function as defined by URL**

**Original Titles:**

Vault controller context manager and methods of operation for securely  
maintaining state information between successive browser connections in an  
electronic business system

Vault controller context manager and methods of operation for securely  
maintaining state information between successive browser connections in an  
electronic business system

Local Applications (No Type Date): CA 2310535 A 20000602; US 1999343231

A 19990630; US 2004771107 A 20040203; US 1999343231 A 19990630; US

2004771107 A 20040203

Priority Applications (no., kind, date): US 2004771107 A 20040203; US

1999343231 A 19990630

**17/AN,AZ,TI/6 (Item 6 from file: 350)**

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0010705627

**Certification services providing system in Internet environment, enforces  
rights as third party beneficiary and makes contract directly with level  
two participant to accept operating rules of root entity**

**Original Titles:**

Intelligent data inventory and asset management system method and apparatus  
Intelligent data inventory and asset management system method and apparatus  
SYSTEM AND METHOD FOR PROVIDING CERTIFICATE-RELATED AND OTHER SERVICES  
SYSTEME ET PROCEDE DE PRESTATION DE SERVICES, NOTAMMENT DE SERVICES  
ORIENTES CERTIFICATION

Local Applications (No Type Date): WO 2000US24608 A 20000908; AU  
200073572 A 20000908; US 1997835609 A 19970409; US 1999153327 P  
19990910; US 200257595 A 20020125; US 199615327 P 19960412; US  
1997835609 A 19970409; US 200257595 A 20020125  
Priority Applications (no., kind, date): US 200257595 A 20020125; US  
1997835609 A 19970409; US 199615327 P 19960412; US 1999153327 P  
19990910

**17/AN,AZ,TI/7 (Item 7 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0009206635

**Data item retrieving method in client-server network for internet - directs  
data item request initiated from one circuit from a group to lookup  
table to retrieve requested data from cache memory**

**Original Titles:**

System and method for maintaining a shared cache look-up table.

Local Applications (No Type Date): US 1996583334 A 19960105

Priority Applications (no., kind, date): US 1996583334 A 19960105

**17/AN,AZ,TI/8 (Item 8 from file: 350)**

DIALOG(R)File 350:(c) 2006 The Thomson Corporation. All rts. reserv.

0008833076

**Asymmetrical network for coupling customer-premises Internet hosts such as  
personal computers to Internet - has cable router that receives message via  
telephone line which specifies channel on the CATV cable and logical  
network address and assigns IP address to host and tunes tuner to selected  
channel**

**Original Titles:**

Verfahren und Vorrichtung zur Erkennung, Korrektur und Abweisung von  
verfaelschten Datenpaketen in einem Daten uebermittelnden Kabelsystem  
System and method for detecting, correcting and discarding corrupted data  
packets in a cable data delivery system

Procede et systeme de detection, correction et reject de paquets de donnees  
alteres dans un systeme de fourniture de donnees par cable

Router for which a logical network address which is not unique to the  
router is the gateway address in default routing table entries

Methods for dynamically assigning link addresses and logical network  
addresses

**Two - tiered** authorization and authentication for a cable data delivery  
system

Router for use with a link that has a set of concurrent channels

System and method for detecting correcting and discarding corrupted data  
packets in a cable data delivery system.

Router which dynamically requests a set of logical network addresses and  
assigns addresses in the set to hosts connected to the router.

Cable modem map display for network management of a cable data delivery  
system.

Data traffic control in a data modem system.

Usage statistics collection for a cable data delivery system.

**Two - tiered** authorization and authentication for a cable data delivery system.

Dynamic allocation of a set of addresses to router RF modem for individual assignment to hosts.

Method of using routing protocols to reroute packets during a link failure

Router for which a logical network address which is not unique to the router is the gateway address in default routing table entries

Router for use with a link that has a set of concurrent channels

Methods for dynamically assigning link addresses and logical network addresses

Router for use with a link that has a set of concurrent channels

Local Applications (No Type Date): EP 1998100810 A 19980119; US 199735618

P 19970117; US 1997835966 A 19970411; US 199735618 P 19970117; US 1997843056 A 19970411; US 199735618 P 19970117; US 1997840304 A 19970411; US 2001767926 A 20010123; US 199735618 P 19970117; US 1997835917 A 19970410; US 1997851066 A 19970505; US 199735618 P 19970117; US 1997992711 A 19971217; US 199735618 P 19970117; US 1997843061 A 19970411; US 2001760961 A 20010116; US 199735618 P 19970117; US 1997835917 A 19970410; US 199735618 P 19970117; US 1997835916 A 19970410; US 2001929760 A 20010814; US 199735618 P 19970117; US 1997843056 A 19970411; US 2000710382 A 20001109; US 199735618 P 19970117; US 1997837073 A 19970411; US 2001903281 A 20010711; US 199735618 P 19970117; US 1997840304 A 19970411; US 2001767926 A 20010123; US 199735618 P 19970117; US 1997838833 A 19970411; US 199735618 P 19970117; US 1997838833 A 19970411; US 2003457124 A 20030609; US 199735618 P 19970117; US 1997843061 A 19970411; US 2001760961 A 20010116; US 199735618 P 19970117; US 1997838833 A 19970411; US 2003457124 A 20030609

Priority Applications (no., kind, date): US 2003457124 A 20030609; US 2001929760 A 20010814; US 2001903281 A 20010711; US 2001767926 A 20010123; US 2001760961 A 20010116; US 2000710382 A 20001109; US 1997992711 A 19971217; US 1997851066 A 19970505; US 1997843061 A 19970411; US 1997843056 A 19970411; US 1997840304 A 19970411; US 1997838833 A 19970411; US 1997837073 A 19970411; US 1997835966 A 19970411; US 1997835917 A 19970410; US 1997835916 A 19970410; US 199735618 P 19970117

? show files;ds

File 348:EUROPEAN PATENTS 1978-2006/ 200648

(c) 2006 European Patent Office

File 349:PCT FULLTEXT 1979-2006/UB=20061207UT=20061130

(c) 2006 WIPO/Thomson

Set	Items	Description
S1	148572	(NETWORK?? OR INTERCONNECTED) (3N) (COMPUTER OR SYSTEM OR DISTRIBUTED) OR LAN OR WAN OR (LOCAL OR WIDE) ( ) AREA ( ) (NETWORK OR NETWORKS)
S2	149350	HIERARCHICAL OR (TWO OR 2 OR SECOND OR 2ND OR TWOFOLD OR DUAL OR PLURAL OR PLURALITY OR MULTIPLE? OR MULTI OR PAIR??) (2-N) (LEVEL OR LEVELS OR TIER?? OR SOFTWARE ( ) (AGENT OR AGENTS OR COMPONENT OR COMPONENTS))
S3	724119	BACK??? ( ) (UP OR UPS) OR BACKUP OR BACKUPS OR STORAGE OR ARCHIV??? OR RECORDING OR PRESERV??? OR PRESERVATION OR RETENTION OR RETRIEVAL OR (DATA OR INFORMATION OR FILE OR FILES) (2N) - (RECOVERY OR RESTOR??? OR RESTORATION)
S4	15293	(MAINTAIN??? OR MAINTENANCE) (2N) (METRICS OR ALGOR?THM? ? OR FORMULA? ? OR PARAMET? OR RULE OR RULES) OR INITIAT??? (2N) (REQUEST OR REQUESTS OR ARCHIVAL OR ARCHIVING OR BACKUP OR RESTORE OR RESTORES)
S5	763809	SUPERVISE OR SUPERVISES OR SUPERVISING OR ADMINISTER OR ADMINISTRATION OR MANAGE OR MANAGES OR MANAGING OR OPERATES OR INDEPENDENT??
S6	57	S1 (10N) ( (S2 (5N) S3 ) OR HSM)
S7	241	S4 (10N) S5
S8	0	S6 (S) S7
S9	173	S1 (S) ( (S2 (7N) S3 ) OR HSM)
S10	481	S4 (20N) S5
S11	4	S9 (S) S10
S12	23	S1 (S) S2 (S) S3 (S) S4 (S) S5
S13	174282	IC=G06F
S14	18	S12 AND S13
S15	22	S11 OR S14
S16	22	IDPAT (sorted in duplicate/non-duplicate order)
S17	22	IDPAT (primary/non-duplicate records only)

17/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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*instant  
Application*

01258149

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

**HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM**

**SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE**

**PATENT ASSIGNEE:**

Commvault Systems, Inc., (2305342), 2 Crescent Place, Oceanport, NJ  
07757-0900, (US), (Proprietor designated states: all)

**INVENTOR:**

CRESCENTI, John, 1 Ivy Road, Freehold, NJ 07728, (US)  
KAVURI, Srinivas, 40 Maple Court, Highland Park, NJ 08904, (US)  
OSHINSKY, David, A., 22 Francis Road, East Brunswick, NJ 08816, (US)  
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**LEGAL REPRESENTATIVE:**

Hackett, Sean James (55262), Marks & Clerk, Patent Attorneys, Alpha  
Tower, Suffolk Street Queensway, Birmingham B1 1TT, (GB)

PATENT (CC, No, Kind, Date): EP 1204922 A1 020515 (Basic)

EP 1204922 B1 050622

WO 2001006367 010125

APPLICATION (CC, No, Date): EP 2000947402 000717; WO 2000US19324 000717

PRIORITY (CC, No, Date): US 354058 990715

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-011/14

**NOTE:**

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200525	541
CLAIMS B	(German)	200525	493
CLAIMS B	(French)	200525	687
SPEC B	(English)	200525	5397

Total word count - document A 0

Total word count - document B 7118

Total word count - documents A + B 7118

...SPECIFICATION defined in claim 1.

Embodiments of the present invention may be found in a backup **system** for a **network** computing **system**. The **network computer system** has a first **network** device and a second **network** device. The backup **system** has a first software agent operating on a first network device on the **network** computing **system**. The first software agent is communicatively coupled to at least one backup device. The first software agent maintains operational parameters for the backup regime for the **network computer system**. The first software agent makes archival requests directed to the backup device or devices to **initiate archival requests**, including **backups** and restores.

A **second software agent**, operating on the second network device, **supervises** the operation of the first software agent. The second software agent is able to **initiate archival function requests** to the backup device or devices **independent** from the first software agent. Additionally, the second software agent may make an archival request...

17/3,K/7 (Item 7 from file: 349)



DIALOG(R)File 349:PCT FULLTEXT  
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01091980

**CHANGE NAVIGATION TOOLKIT**

**BOITE A OUTILS DE NAVIGATION POUR LA PRISE EN CHARGE DE CHANGEMENTS  
ORGANISATIONNELS**

Patent Applicant/Assignee:

ACCENTURE GLOBAL SERVICES GMBH, Geschäftshaus Herrenacker 15, 8200  
Schaffhausen, CH, CH (Residence), CH (Nationality)

Inventor(s):

JONES Elizabeth C, 9536 Larchcrest Drive, Dallas, TX 75238, US,  
MIHALIAK Charles E, 4721 Columbia Road, Annandale, VA 22003, US,

Legal Representative:

MCLEISH Nicholas Alistair Maxwell (et al) (agent), Bould Wade Tennant,  
Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200413779 A2 20040212 (WO 0413779)

Application: WO 2003EP8573 20030731 (PCT/WO EP03008573)

Priority Application: US 2002210299 20020801

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD  
SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 31125

Main International Patent Class (v7): **G06F-017/60**

Fulltext Availability:

Claims

Claim

... over communication

between client computers 120 and provide processing capabilities as well  
as a common **storage** media for use by one or more client computers 120  
of the network.

The server...

...device 103 for displaying information to a user of the server 1 01 , a  
secondary **storage** device

104 for providing supplemental memory/ **storage** device for the server 101  
which may include a database 106 for maintaining information for...

...at the client computer 120, a

client memory 124 providing for temporary and long-term **storage** of  
information and programming at the client computer 120, including random  
1 5 access memory and non-volatile **storage** such as a hard drive, and a  
client secondary **storage** device 125 providing supplemental **storage**  
for the client 120. Although not shown, the technological aspect 1 00 may  
further include...may be provided through software resident within the  
client computer memory 124 or client secondary **storage** 125, or via  
programming resident with the server 101.

The server 101 and network 122...

...processing architecture is employed by the business processing software, the database 106 of the secondary **storage** 104, or the memory 108, may further include a library of information 150 (i.e...

...the Change Navigation Toolkit may provide a data structure as a template for use in **recording** the rules for event processing, or for **recording** any other information in configuring the business processing software for operating in the desired operational...

...not shown), where the task library may be stored in the memory 108, on secondary **storage** 104, on client memory 124 or client secondary **storage** 125, or on any other computer readable **storage** media accessible by the processor carrying out the event-based processing, as would be 1...

...hereby incorporated by reference herein.

In accordance with another embodiment of the invention, the secondary **storage** 104 or memory 108 may further include other data structures such as tasks, pre-formatted...

...Figure 2A, the Change Navigation Toolkit provides various methodology components, or portions 200, in a **hierarchical** structure, for use in carrying out a change navigation methodology in transitioning an insurance organization...

...the new claims technology system implementation, from recruiting and educating Change Navigation Team members to **managing** development efforts and monitoring transition success for the business organization. Change navigation allows for **managing** the transition of the claims organization from its existing operational environment to a desired, target...

...3.

0 Figure 3 illustrates a flow chart representing methodology which may be employed in **managing** change navigation within a business organization, in accordance with an embodiment of the invention. To **manage** change navigation efforts, a work plan and project timeline are created as shown at step...

17/3,K/8 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2006 WIPO/Thomson. All rts. reserv.

01066614 \*\*Image available\*\*

**METHOD AND SYSTEM FOR MEDIA**

**PROCEDE ET SYSTEME POUR CONTENU MULTIMEDIA**

Patent Applicant/Inventor:

RISAN Hank, 515 Washington Street, Santa Cruz, CA 95060, US, US  
(Residence), US (Nationality)

FITZGERALD Edward Vincent, 100 Peach Terrace, Santa Cruz, CA 95060, US,  
US (Residence), US (Nationality)

Legal Representative:

GALLENSON Mavis S (et al) (agent), Ladas & Parry, 5670 Wilshire  
Boulevard, Suite 2100, Los Angeles, CA 90036, US,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200396340 A2 20031120 (WO 0396340)  
Application: WO 2003US14878 20030510 (PCT/WO US03014878)  
Priority Application: US 2002379979 20020510; US 2002378011 20020510; US  
2002218241 20020813; US 2002235293 20020904; US 2002304390 20021125; US  
2002325243 20021218; US 2003364643 20030210; US 2003451231 20030228; US  
2003430843 20030505; US 2003430477 20030505

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE  
SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 222812

Main International Patent Class (v7): **G06F-001/00**

Fulltext Availability:

Detailed Description

Detailed Description

```
... I;  
I  
if($request=~/Omniweb/io)  
Sok = 0; $mozzy = 1; $request Sua = $I;  
I  
if($ request @ /iCab/io)  
Sok = 0; $mozzy = 1; $request @/+.As*(.+)$/; $ua = $ 1;  
----- MP3 RIPPER INFO  
if($request...  
  
...ua = $ 1;  
if($request =~/RMA/io)  
Sok = 0; $real = 1; $request @/+.As*(.+)$/; $ua = SI;  
if($ request /Winamp/io) Sok = 1; $request =~/+.+  
s*(.+)  
s*$/; $ua S 1;  
if($request /QuickTime/io) Sok...
```

**17/3,K/17 (Item 17 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

(c) 2006 WIPO/Thomson. All rts. reserv.

00772867 \*\*Image available\*\*

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

**SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE**

Patent Applicant/Assignee:

COMVAULT SYSTEMS INC, 2 Crescent Place, Oceanport, NJ 07757-0900, US, US  
(Residence), US (Nationality)

Inventor(s):

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OSHINSKY David A, 22 Francis Road, East Brunswick, NJ 08816, US  
PRAHLAD Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, US

Legal Representative:

BENNETT James D, Akin, Gump, Strauss, Hauer & Feld, LLP, Suite 1900, 816  
Congress Avenue, Austin, TX 78701, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200106367 A1 20010125 (WO 0106367)  
Application: WO 2000US19324 20000717 (PCT/WO US0019324)  
Priority Application: US 99354058 19990715  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 6616

Fulltext Availability:

Detailed Description

Detailed Description

... OF THE INVENTION

Various aspects of the present invention may be found in a backup **system** for a **network** computing **system**. The **network computer system** has a first **network** device and a second **network** device. The backup **system** has a first software agent operating on a first network device on the **network** computing **system**. The first software agent is communicatively coupled to at least one backup device. The first software agent maintains operational parameters for the backup regime for the **network computer system**. The first software agent makes archival requests directed to the backup device or devices to **initiate archival requests**, including **backups** and restores.

A **second software agent**, operating on the second network device, **supervises** the operation of the first software agent. The second software agent is able to **initiate archival function requests** to the backup device or devices **independent** from the first software agent. Additionally, the second software agent may make an archival request...

**17/AN,AZ,TI/1 (Item 1 from file: 348)**

DIALOG(R)File 348:(c) 2006 European Patent Office. All rts. reserv.

01898247

**Systems and methods for secure transaction management and electronic rights protection**

**Systeme und Verfahren zur Verwaltung von gesicherten Transaktionen und zum Schutz von elektronischen Rechten**

**Systemes et procedes pour gerer des transactions securisees et pour proteger des droits electroniques**

APPLICATION (CC, No, Date): EP 2004078195 960213;

PRIORITY (CC, No, Date): US 388107 950213

**17/AN,AZ,TI/2 (Item 2 from file: 348)**

DIALOG(R)File 348:(c) 2006 European Patent Office. All rts. reserv.

01752676

**Systems and methods for secure transaction management and electronic rights protection**

**Systeme und Verfahren zur gesicherten Transaktionsverwaltung und elektronischem Rechtsschutz**

**Systemes et procedes de gestion de transactions securisees et de protection de droits electroniques**

APPLICATION (CC, No, Date): EP 2004075701 960213;

PRIORITY (CC, No, Date): US 388107 950213

**17/AN,AZ,TI/3 (Item 3 from file: 348)**

DIALOG(R)File 348:(c) 2006 European Patent Office. All rts. reserv.

01258149

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**

**HIERARCHISCHE DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM**

**SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE**

APPLICATION (CC, No, Date): EP 2000947402 000717; WO 2000US19324 000717

PRIORITY (CC, No, Date): US 354058 990715

**17/AN,AZ,TI/4 (Item 4 from file: 348)**

DIALOG(R)File 348:(c) 2006 European Patent Office. All rts. reserv.

00401208

**Servicing interrupts in a data processing system**

**Unterbrechungsbedienung in einem Datenverarbeitungssystem**

**Prise en charge d'interruptions dans un systeme de traitement de donnees**

APPLICATION (CC, No, Date): EP 90305309 900516;

PRIORITY (CC, No, Date): US 353117 890517

**17/AN,AZ,TI/5 (Item 5 from file: 348)**

DIALOG(R)File 348:(c) 2006 European Patent Office. All rts. reserv.

00306058

**Digital data processing system.**

**Digitales Datenverarbeitungssystem.**

**Systeme de traitement de donnees numeriques.**

APPLICATION (CC, No, Date): EP 88200917 820521;

PRIORITY (CC, No, Date): US 266404 810522

**17/AN,AZ,TI/6** (Item 6 from file: 349)  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01439304

**PROCESSOR AND INTERFACE  
PROCESSEUR ET INTERFACE**

Application: WO 2006GB1756 20060512 (PCT/WO GB2006001756)

**17/AN,AZ,TI/7** (Item 7 from file: 349)  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01091980

**CHANGE NAVIGATION TOOLKIT  
BOITE A OUTILS DE NAVIGATION POUR LA PRISE EN CHARGE DE CHANGEMENTS  
ORGANISATIONNELS**

Application: WO 2003EP8573 20030731 (PCT/WO EP03008573)

**17/AN,AZ,TI/8** (Item 8 from file: 349)  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

01066614

**METHOD AND SYSTEM FOR MEDIA  
PROCEDE ET SYSTEME POUR CONTENU MULTIMEDIA**

Application: WO 2003US14878 20030510 (PCT/WO US03014878)

**17/AN,AZ,TI/9** (Item 9 from file: 349)  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00943767

**SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR A SUPPLY CHAIN MANAGEMENT  
SYSTEME, PROCEDE ET PRODUIT PROGRAMME INFORMATIQUE CONCUS POUR UNE GESTION  
DE CHAINE D'APPROVISIONNEMENT**

Application: WO 2002US8287 20020319 (PCT/WO US02008287)

**17/AN,AZ,TI/10** (Item 10 from file: 349)  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00933152

**EXTENDED WEB ENABLED MULTI-FEATURED BUSINESS TO BUSINESS COMPUTER SYSTEM  
FOR RENTAL VEHICLE SERVICES  
SYSTEME INFORMATIQUE ETENDU ENTRE ENTREPRISES, A FONCTIONS MULTIPLES,  
FONCTIONNANT SUR LE WEB, POUR DES SERVICES DE LOCATION DE VEHICULES**

Application: WO 2001US51437 20011019 (PCT/WO US0151437)

Parent Application/Grant:

Related by Continuation to: US 2000694050 20001020 (CIP)

**17/AN,AZ,TI/11** (Item 11 from file: 349)  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00908952

**ANONYMOUS TRANSACTION SYSTEM  
SYSTEME DE TRANSACTION ANONYME**

Application: WO 2001US44318 20011127 (PCT/WO US0144318)

**17/AN,AZ,TI/12 (Item 12 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00802534

**ANY-TO-ANY COMPONENT COMPUTING SYSTEM**  
**SYSTEME INFORMATIQUE A COMPOSANTS TOUTE CATEGORIE**  
Application: WO 2000US31231 20001113 (PCT/WO US0031231)

**17/AN,AZ,TI/13 (Item 13 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00799787

**ARCHITECTURES FOR NETCENTRIC COMPUTING SYSTEMS**  
**ARCHITECTURES DESTINEES A DES SYSTEMES INFORMATIQUES S'ARTICULANT AUTOUR**  
**D'INTERNET**  
Application: WO 2000US30519 20001103 (PCT/WO US0030519)

**17/AN,AZ,TI/14 (Item 14 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00784184

**A SYSTEM, METHOD FOR FIXED FORMAT STREAM COMMUNICATION IN A COMMUNICATION**  
**SERVICES PATTERNS ENVIRONMENT**  
**SYSTEME, PROCEDE ET ARTICLE POUR FLUX DE FORMAT FIXE DANS UN ENVIRONNEMENT**  
**A CONFIGURATIONS DE SERVICES DE COMMUNICATION**  
Application: WO 2000US24114 20000831 (PCT/WO US0024114)

**17/AN,AZ,TI/15 (Item 15 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00784143

**SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR LOAD BALANCING REQUESTS AMONG**  
**SERVERS**  
**SYSTEME, PROCEDE ET ARTICLE POUR EQUILIBREUR DE CHARGE DANS UN**  
**ENVIRONNEMENT DE STRUCTURES DE SERVICES**  
Application: WO 2000US24236 20000831 (PCT/WO US0024236)

**17/AN,AZ,TI/16 (Item 16 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00784132

**A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A LEGACY WRAPPER IN A**  
**COMMUNICATION SERVICES PATTERNS ENVIRONMENT**  
**SYSTEME, PROCEDE ET DISPOSITIF POUR MODULE D'HABILLAGE EXISTANT DANS UN**  
**ENVIRONNEMENT DE SCHEMAS DE SERVICES DE COMMUNICATION**  
Application: WO 2000US24084 20000831 (PCT/WO US0024084)

**17/AN,AZ,TI/17 (Item 17 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00772867

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM**  
**SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE**  
Application: WO 2000US19324 20000717 (PCT/WO US0019324)

**17/AN,AZ,TI/18 (Item 18 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00761429  
**METHODS, CONCEPTS AND TECHNOLOGY FOR A VIRTUAL SHOPPING SYSTEM CAPABLE OF ASSESSING NEEDS OF A CUSTOMER AND RECOMMENDING A PRODUCT OR SERVICE BASED ON SUCH ASSESSED NEEDS**  
**PROCEDES, CONCEPTS ET TECHNOLOGIE POUR SYSTEME D'ACHAT VIRTUEL CAPABLE D'EVALUER LES BESOINS D'UN CLIENT ET DE RECOMMANDER UN PRODUIT OU UN SERVICE SUR LA BASE DE CES BESOINS**  
Application: WO 2000US14357 20000524 (PCT/WO US0014357)

**17/AN,AZ,TI/19 (Item 19 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00482074  
**AUTOMATED METER READING SYSTEM**  
**SYSTEME DE LECTURE AUTOMATIQUE DES COMPTEURS**  
Application: WO 98US19034 19980911 (PCT/WO US9819034)

**17/AN,AZ,TI/20 (Item 20 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00418748  
**SYSTEMS AND METHODS FOR SECURE TRANSACTION MANAGEMENT AND ELECTRONIC RIGHTS PROTECTION**  
**SYSTEMES ET PROCEDES DE GESTION DE TRANSACTIONS SECURISEES ET DE PROTECTION DE DROITS ELECTRONIQUES**  
Application: WO 97US15243 19970829 (PCT/WO US9715243)

**17/AN,AZ,TI/21 (Item 21 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00401843  
**APPARATUS AND METHOD FOR MANAGING AND DISTRIBUTING DESIGN AND MANUFACTURING INFORMATION THROUGHOUT A SHEET METAL PRODUCTION FACILITY**  
**APPAREIL ET METHODE CORRESPONDANTE PERMETTANT DE GERER ET DE REPARTIR UNE INFORMATION RELATIVE A LA CONCEPTION ET A LA FABRICATION DANS UNE INSTALLATION DE PRODUCTION DE TOLES**  
Application: WO 97US7472 19970506 (PCT/WO US9707472)

**17/AN,AZ,TI/22 (Item 22 from file: 349)**  
DIALOG(R)File 349:(c) 2006 WIPO/Thomson. All rts. reserv.

00275209  
**DATA COMPRESSION AND DECOMPRESSION**  
**COMPRESSION ET DECOMPRESSION DE DONNEES**  
Application: WO 94GB677 19940330 (PCT/WO GB9400677)



*Bibliographic  
NPL files*

? show files;ds  
 File 2:INSPEC 1898-2006/Nov W4  
     (c) 2006 Institution of Electrical Engineers  
 File 6:NTIS 1964-2006/Nov W4  
     (c) 2006 NTIS, Intl Cpyrght All Rights Res  
 File 8:Ei Compendex(R) 1970-2006/Nov W4  
     (c) 2006 Elsevier Eng. Info. Inc.  
 File 34:SciSearch(R) Cited Ref Sci 1990-2006/Dec W1  
     (c) 2006 The Thomson Corp  
 File 35:Dissertation Abs Online 1861-2006/Nov  
     (c) 2006 ProQuest Info&Learning  
 File 65:Inside Conferences 1993-2006/Dec 07  
     (c) 2006 BLDSC all rts. reserv.  
 File 94:JICST-EPlus 1985-2006/Aug W3  
     (c) 2006 Japan Science and Tech Corp(JST)  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Nov  
     (c) 2006 The HW Wilson Co.  
 File 144:Pascal 1973-2006/Nov W2  
     (c) 2006 INIST/CNRS  
 File 202:Inspec 1898-1968  
     (c) 2005 Institution of Electrical Engineers  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
     (c) 2006 The Thomson Corp  
 File 553:Wilson Bus. Abs. 1982-2006/Dec  
     (c) 2006 The HW Wilson Co

Set	Items	Description
S1	501309	(NETWORK?? OR INTERCONNECTED) (3N) (COMPUTER OR SYSTEM OR DISTRIBUTED) OR LAN OR WAN OR (LOCAL OR WIDE) ( ) AREA ( ) (NETWORK OR NETWORKS)
S2	522144	HIERARCHICAL OR (TWO OR 2 OR SECOND OR 2ND OR TWOFOLD OR DUAL OR PLURAL OR PLURALITY OR MULTIPLE? OR MULTI OR PAIR??) (2-N) (LEVEL OR LEVELS OR TIER?? OR SOFTWARE ( ) (AGENT OR AGENTS OR COMPONENT OR COMPONENTS))
S3	2364206	BACK??? ( ) (UP OR UPS) OR BACKUP OR BACKUPS OR STORAGE OR ARCHIV??? OR RECORDING OR PRESERV??? OR PRESERVATION OR RETENTION OR RETRIEVAL OR (DATA OR INFORMATION OR FILE OR FILES) (2N) - (RECOVERY OR RESTOR??? OR RESTORATION)
S4	9935	(MAINTAIN??? OR MAINTENANCE) (2N) (METRICS OR ALGOR?THM? ? OR FORMULA? ? OR PARAMET? OR RULE OR RULES) OR INITIAT??? (2N) (REQUEST OR REQUESTS OR ARCHIVAL OR ARCHIVING OR BACKUP OR RESTORE OR RESTORES)
S5	1887669	SUPERVISE OR SUPERVISES OR SUPERVISING OR ADMINISTER OR ADMINISTRATION OR MANAGE OR MANAGES OR MANAGING OR OPERATES OR INDEPENDENT??
S6	143	S1 (10N) ( (S2 (5N) S3 ) OR HSM)
S7	90	S4 (10N) S5
S8	0	S6 (S) S7
S9	129	S1 (S) ( (S2 (7N) S3 ) OR HSM)
S10	169	S4 (20N) S5
S11	0	S9 AND S10
S12	2	S1 AND S2 AND S3 AND S4 AND S5
S13	5	S2 (S) S3 (S) S4 (S) S5
S14	1692	(HSM OR (S2 (S) S3) (S) S4 (S) S5)
S15	15	S1 (S) S14
S16	20	S12 OR S13 OR S15
S17	15	S16 NOT PY>1999
S18	15	S17 NOT PD=19990716:20070131
S19	9	RD (unique items)

**19/3,K/2 (Item 2 from file: 2)**  
DIALOG(R)File 2:INSPEC  
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

06264803

**Title: Software is security key [storage management software]**

Author(s): Enticknap, N.  
Journal: IBM System User spec. issue. p.25, 27-8  
Publisher: APT Data Group,  
Publication Date: April 1996 Country of Publication: UK  
CODEN: ISYUEQ ISSN: 0950-303X  
SICI: 0950-303X(199604)L.25:SSSM;1-Q  
Material Identity Number: H523-96006  
Language: English  
Subfile: D  
Copyright 1996, IEE

...Identifiers: **LAN HSM** ;

**19/3,K/3 (Item 3 from file: 2)**  
DIALOG(R)File 2:INSPEC  
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05770387 INSPEC Abstract Number: C9411-5620L-010

**Title: HSM tries to tame the LAN storage tiger**

Author(s): Saunders, S.  
Author Affiliation: Data Commun., San Mateo, CA, USA  
Journal: Data Communications International vol.23, no.11 p.73-8,  
80-1  
Publication Date: Aug. 1994 Country of Publication: USA  
CODEN: DCINEU ISSN: 0363-6399  
U.S. Copyright Clearance Center Code: 0363-6399/94/\$5.50  
Language: English  
Subfile: C

**Title: HSM tries to tame the LAN storage tiger**

...Abstract: hard drives into servers can create more administrative problems than it solves. Hierarchical storage management ( **HSM** ), which exploits high-density media like optical disks and magnetic tape is being put forward as a way around **LAN** storage problems. **HSM** provides a way to store seldom-used files that are cluttering up server drives while...

**19/3,K/6 (Item 1 from file: 99)**  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2006 The HW Wilson Co. All rts. reserv.

1218121 H.W. WILSON RECORD NUMBER: BAST95013579

**Network storage economizers**

AUGMENTED TITLE: Avail's NetSpace 3.0, Palindrome HSM 3.1a, and Arcada's Storage Migrator 3.0  
Nance, Barry;  
Byte v. 20 (Mar. '95) p. 137-8+  
DOCUMENT TYPE: Product Evaluation ISSN: 0360-5280

...ABSTRACT: of data management, manufacturers are beginning to offer a technology known as hierarchical storage management ( **HSM** ) on PC LANs. **HSM** lets users automate the migration of **LAN** data to and from file-server hard drives to slower, larger-capacity devices. **HSM** cannot

substitute for the backup procedures that must still be followed for all data on the **LAN** ; rather, **HSM** extends the storage capability of file servers by moving infrequently used older files from primary storage to secondary storage. Three **HSM** products for PC LANs are reviewed: Avail's NetSpace, Arcada's Storage Migrator, and Palindrome's Palindrome **HSM** .

**19/3,K/7 (Item 2 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2006 The HW Wilson Co. All rts. reserv.

1131682 H.W. WILSON RECORD NUMBER: BAST94000226

**Hierarchical storage reaches the LAN**

AUGMENTED TITLE: Buyer's Guide

McCusker, Tom;

Datamation v. 39 (Dec. 15 '93) p. 73-6

DOCUMENT TYPE: Feature Article ISSN: 0011-6963

ABSTRACT: Vendors are introducing hierarchical storage management ( **HSM** ), which in its purest form guarantees that **LAN** users will never again run out of disk space. Previously, this was possible only on...

...data on mature and secure MVS mainframe systems or on midrange UNIX systems. Unfortunately, many **LAN HSM** packages are just backup products or software that do not provide all of the ingredients of a true **HSM** . A table presents data on several **HSM** products.

**19/3,K/9 (Item 2 from file: 553)**

DIALOG(R)File 553:Wilson Bus. Abs.  
(c) 2006 The HW Wilson Co. All rts. reserv.

02763928 H.W. WILSON RECORD NUMBER: BWBA94013928

**Migrating data to cheaper storage.**

AUGMENTED TITLE: Conner Peripherals' Hierarchical Storage Management (HSM) system

Salamone, Salvatore

Data Communications (Data Commun) v. 22 (Aug. '93) p. 49-50

LANGUAGE: English

ABSTRACT: Conner Peripherals' Hierarchical Storage Management ( **HSM** ) System, which is designed for corporate networks with multiple Novell Netware file servers, is the first **LAN** storage management software that rivals the better data-handling capabilities of mainframes. The **HSM** System reduces online storage costs by automatically migrating inactive files from server hard disks through...

19/6/1 (Item 1 from file: 2)  
06901808 INSPEC Abstract Number: B9806-6210L-024, C9806-5620W-010  
**Title: A loop-free routing protocol for large-scale internets using distance vectors**  
Publication Date: 1 March 1998  
Copyright 1998, IEE

19/6/2 (Item 2 from file: 2)  
06264803  
**Title: Software is security key [storage management software]**  
Publication Date: April 1996  
Copyright 1996, IEE

19/6/3 (Item 3 from file: 2)  
05770387 INSPEC Abstract Number: C9411-5620L-010  
**Title: HSM tries to tame the LAN storage tiger**  
Publication Date: Aug. 1994

19/6/4 (Item 1 from file: 6)  
1878350 NTIS Accession Number: N95-24125/3  
**Digital Linear Tape (DLT) Technology and Product Family Overview**  
Mar 94

19/6/5 (Item 2 from file: 6)  
1666481 NTIS Accession Number: DE92011062  
**Advanced Neutron Source reactor control and plant protection systems design**  
1992

19/6/6 (Item 1 from file: 99)  
1218121 H.W. WILSON RECORD NUMBER: BAST95013579  
**Network storage economizers**  
AUGMENTED TITLE: Avail's NetSpace 3.0, Palindrome HSM 3.1a, and Arcada's Storage Migrator 3.0  
19950300

19/6/7 (Item 2 from file: 99)  
1131682 H.W. WILSON RECORD NUMBER: BAST94000226  
**Hierarchical storage reaches the LAN**  
AUGMENTED TITLE: Buyer's Guide  
19931215

19/6/8 (Item 1 from file: 553)  
03015680 H.W. WILSON RECORD NUMBER: BWBA95015680  
**Broker aims term life at 'electronic consumer'.**  
AUGMENTED TITLE: Hirschfeld, Stern, Moyer & Ross' PC Life Services on Prodigy  
Nov. 7 '94

19/6/9 (Item 2 from file: 553)  
02763928 H.W. WILSON RECORD NUMBER: BWBA94013928  
**Migrating data to cheaper storage.**

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17/3,K/1 (Item 1 from file: 16)  
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**PeopleSoft Debuts Manufacturing Software**

News Release, pN/A

Oct 15, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1575

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...fulfillment, and control of lead times. \* Procurement to Payment -- includes inventory optimization and supplier management. \* **Managing** the Enterprise -- includes trend analysis and decision support. PeopleSoft Manufacturing PeopleSoft Manufacturing includes PeopleSoft Bills...

...work centers, jobs, and routings. It offers all the flexibility and control necessary to effectively **manage** all machines, tools, and crews, and provides instant access to essential information: tracking and displaying...

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...replenishment. \* PeopleSoft Cost Management PeopleSoft Cost Management provides the control and flexibility for companies to **manage** costs throughout the supply chain. It supports multiple methods of costing (standard, actual, weighted average...

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...in real-time and determine if, when, and how to produce each particular product. It **maintains** configuration **rules** which encompass marketing, engineering, and sales data in spreadsheet-like product matrices that are simple...

...function to increase order accuracy and reduce delivery lead time. Unlike other configurators, it supports **multi - level** configuration across **multiple** sites and creates top-level assemblies as well as subassemblies. It also provides configuration pricing...

17/3,K/2 (Item 1 from file: 56)  
DIALOG(R)File 56:Computer and Information Systems Abstracts  
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0000313652 IP ACCESSION NO: 336131

**Loop-free routing protocol for large-scale Internets using distance vectors**

Murthy, Sh; Garcia-Luna-Aceves, J J



Sun Microsystems, Palo Alto, CA, USA

Computer Communications, v 21, n 2, p 147-161, 1 Mar. 1998  
PUBLICATION DATE: 1998

PUBLISHER: Elsevier Science Publishing Co., Inc., P.O. Box 882, Madison  
Square Station, New York, NY, 10159-0882  
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DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
ISSN: 0140-3664  
FILE SEGMENT: Computer & Information Systems Abstracts  
ABSTRACT:

... and prior routing algorithms based on routing trees has been the fact that, because LPA **operates** by communicating shortest-path routing trees incrementally among neighbor nodes, it forces routers to maintain more 'host routes' than would be needed in a traditional distance vector **algorithm**. **Maintaining** such information incurs additional **storage** overhead and may not be feasible in some cases (e.g. due to subnetting). To remedy this, and to provide a scalable Internet routing solution, we propose a new **hierarchical** routing algorithm that combines LPA with the area-based **hierarchical** routing scheme first proposed by McQuillan for distance-vector algorithms. The new algorithm, which we call the **hierarchical** information path-based routing (HIPR) algorithm, accommodates an arbitrary number of aggregation levels and can be viewed as a distributed version of Dijkstra's algorithm running over a **hierarchical** graph. HIPR is verified to be loop-free and correct. Simulations are used to show...

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1131682 **H.W. Wilson Record Number:** BAST94000226

**Hierarchical storage reaches the LAN**

**Augmented Title:** Buyer's Guide

McCusker, Tom ;

Datamation v. 39 (Dec. 15 '93) p. 73-6

**Document Type:** Feature Article **ISSN:** 0011-6963 **Language:** English **Record Status:** New record

**Abstract:** Vendors are introducing hierarchical storage management (HSM), which in its purest form guarantees that LAN users will never again run out of disk space. Previously, this was possible only on enterprise networks that use software to manage and back up data on mature and secure MVS mainframe systems or on midrange UNIX systems. Unfortunately, many LAN HSM packages are just backup products or software that do not provide all of the ingredients of a true HSM. A table presents data on several HSM products.

**Descriptors:** Network management software; Local area networks; Backup storage (Data processing) ;

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1218121 **H.W. Wilson Record Number:** BAST95013579

**Network storage economizers**

**Augmented Title:** Avail's NetSpace 3.0, Palindrome HSM 3.1a, and Arcada's Storage Migrator 3.0

Nance, Barry ;

Byte v. 20 (Mar. '95) p. 137-8+

**Document Type:** Product Evaluation **ISSN:** 0360-5280 **Language:** English **Record Status:** New record

**Abstract:** To help reduce the significant costs of data management, manufacturers are beginning to offer a technology known as hierarchical storage management (HSM) on PC LANs. HSM lets users automate the migration of LAN data to and from file-server hard drives to slower, larger-capacity devices. HSM cannot substitute for the backup procedures that must still be followed for all data on the LAN; rather, HSM extends the storage capability of file servers by moving infrequently used older files from primary storage to secondary storage. Three HSM products for PC LANs are reviewed: Avail's NetSpace, Arcada's Storage Migrator, and Palindrome's Palindrome HSM.

**Descriptors:** Network management software; Memory management (Computer science) ; Product evaluation ;